



MERCATOR Monitor DN80 - 3000 I/min

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Identification

СНАМР	VALEUR
Product Type	Fixed Monitor
Product	 MERCATOR 3000 - DN80 - 3000 I/min MERCATOR 3000 - DN100 - 3000 I/min
Product Reference concerned by the manual	Ref.: 03487 - 07770 References 03487 - 07770 - 15862 used for all visuals
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POK SAS - ZI Les Guignons - 10400 Nogent-sur-Seine - FRANCE Tel : 03 25 39 84 78 - Fax : 03 25 39 84 90 - Email : france@pok.fr - Web : www.pok.fr

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Table of Contents

IDENTIFICATION	2
TABLE OF CONTENTS	
INSTRUCTIONS	
• Introduction	
Dismantling and warranty	
• Utilisation	
• Use	
Limits of use	
PRESENTATION	
OVERVIEW	
DETAILS	
Construction	
Hydraulic Data	
LAYOUT	
USAGE INSTRUCTIONS	
INSTALLATION	
Preamble	
Connection	9
• Mounting	
USE	
Before placing under pressure	
SETTINGS	
Setting the elevation range	
Horizontal range adjustment	11
MAINTENANCE	
Monitor maintenance procedures	
Greasing the monitor	
Returning to service procedure	13
EXPLODED VIEW	
BILL OF MATERIALS	15
NOTES	

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Instructions

Introduction

Please read this manual before using the equipment.

Use, maintenance, or any other operation of the equipment must be done by staff trained for the use of this equipment and aware of any safety rules.

While using the monitor (use, maintenance, installation, ...) it is important to wear personal protective equipment.

Dismantling and warranty

This equipment has a warranty of 1 year for any fabrication default, except where covered by special written agreement.

The exploded view and bill of materials are not a dismantling manual.

Any dismantling or maintenance operation of the device must be done with water supply turned off.

Dismantling and/or modification of the equipment outside POK SAS factory is allowed only in compliance with procedures described in this manual, and therefore does not affect the warranty.

If the equipment is repaired, the spare parts must be supplied by POK SAS. If not, technical characteristics listed in this document won't be valid, the warranty will void and POK SAS responsibility will not apply.

If maintenance operation damage parts, the warranty may not apply if the procedure has not been carried out properly in accordance with this manual.

Although this is not explicitly stated in instructions, use and wear of protective equipment are obligatory during maintenance operation. POK SAS cannot be responsible of any damage or accident which may occur during the dismantling. If this obligation is not met, please refer to the tools instructions guides for more details.

Only POK SAS can ensure proper and safe functioning of the equipment. Therefore POK SAS will not be liable for any damage or accident caused by dismantling of the equipment outside its workshop.

Do not modify the equipment, it may not be working or be dangerous for use. Any modification not approved by POK will void the warranty.

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Instructions

Utilisation

Veuillez respecter les limites techniques du matériel.

Use

Please respect the technical limits of the equipment.

The recommended work pressure is 7 bar (100 PSI). The efficiency over this pressure is not guaranteed.

Do not use the monitor over 16 bar (230 PSI). The equipment can be damaged over the recommended pressure.

The apparatus can not be used if any part is missing or damaged.

Never stand in front of the monitor or point the monitor at somebody. It can cause death.

Please note that use of the monitor may cause damage in the area of the horizontal range. Ensure that the area is safe and clear before the use.

Disrespect of safety instructions and use of the monitor over the recommended pressure can be dangerous and even cause death.

It is important to know and respect the safety rules regarding your operating environment.

POK SAS is not responsible of any accident that may occur during operation caused by improper use or non-compliance with safety requirements.

Limits of use

POK guarantees the function of the equipment up to a maximum operating pressure of 16 BAR (230 PSI)

POK SAS guarantees the function of this equipment up to a maximum test pressure of 25,5 bar (370 PSI) in closed position.

Without explicit written authorization from POK, the warranty will be void if the pressures listed above are exceeded.





Overview



MARK	DESIGNATION
1	Monitor Body
2	Maneuvering handle for elevation setting
3	Knob for horizontal range locking
4	2.5" BSP Female thread
5	Flange connection DN80 ou DN100
6	Greasers
7	Elevation locking pin





• Construction

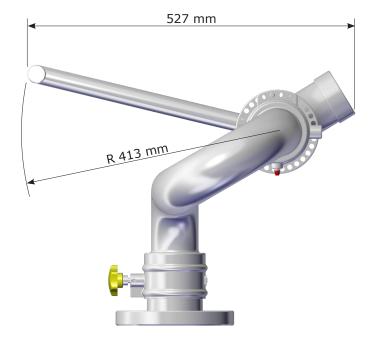
DESIGNATION	VALUE
Tubulures	Stainless Steel
Maneuvering Handle	Stainless Steel
Balls	Bronze.
Screws and nuts	Acier inoxydable
Weight	• 17.21 kg

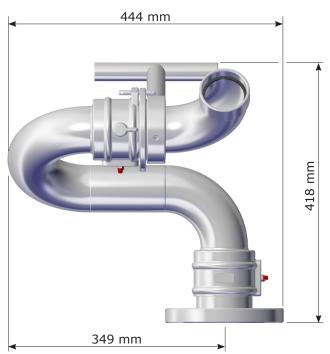
• Hydraulic Data

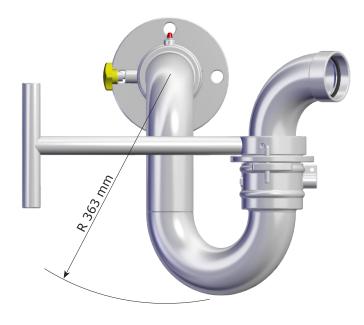
СНАМР	VALEUR	
Maximum flow rate	• 3000 l/min à 7 bar	
	Bride PN16 - DN 80 alésée	
Inlet	OU	
	Bride PN16 - DN100	
Outlet	• Fileté femelle 2.5" BSP	
Nominal Pressure	• 16 bar	
Test Pressure	• 25,5 bar	
Vertical elevation Range	• de -60° à +80°	
Horizontal elevation range	• 360°	
Body dismountable	• No	
Safety	Elevation range locking pinHorizontal range locking knob	













Usage Instructions

Installation

• Preamble

Please read the manual before placing the equipment in service. Not respecting the advice in this manual could render the product dangerous.

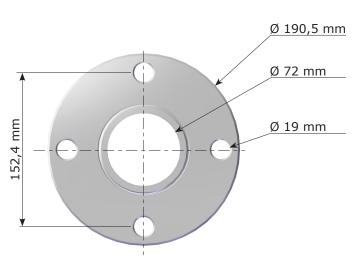
The diffuser is built to function to a maximum of 3000 litres a minute at 7 BAR pressure

Connection

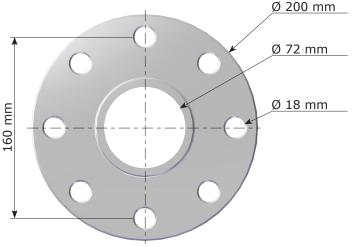
The connection of the monitor on its support must be performed according to applicable safety rules and by personnel trained in its use.

Le branchement de la lance sur son support doit être effectué dans les règles de l'art, par du personnel formé à la mise en service de ce type de matériel. Use the screws, washers, bolts and gaskets (not supplied) suitable for the monitor.

Bride DN 80:

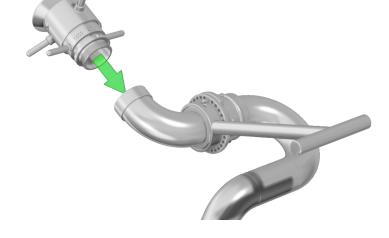


Bride DN 100:



Mounting

Connect the diffuser or branchpipe (not supplied) to the outlet connection of the monitor. Make sure that the seal is clean and tight.





Usage Manual

Use

Before placing under pressure

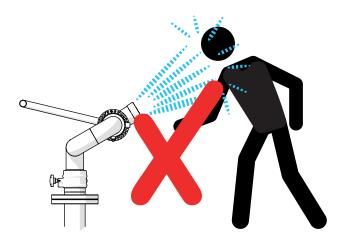
- 1 Check that no parts are damaged or missing.
- 2 Check that the branchpipe is correctly connected to a water supply. (Please, make sure you have at least 5 meters of straight hoses after the monitor's inlet (mark B).
- **3 -** Check that the rest of the equipment is correctly connected.
- 4 In case it is used on a mobile base, make sure that the stabilizing legs are in place and secured.
- **-5** Check that the supports it sufficiently strong enough to resist the reaction force and that the monitor is securely anchored using the attached strap.
- 6 Ensure that all safety pins are in place

Note: To obtain optimal performance, respect the following limits:

- Maximum Flow rate: 3000 I/Min or 790 GPM

- Usage Pressure: 7 bar or 100 PSI

/!\ Never point the stream at another person /!\ Never use the monitor at a horizontal angle of less than 90°.



If your monitor is equipped with a spray jet option make sure that there the area around the monitor is clear and safe before using the spray option.

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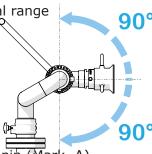
Usage Manual

Settings

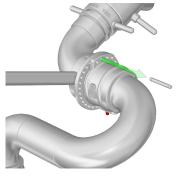
Setting the elevation range

The monitor is adjustable in vertical range (vertical axis of)

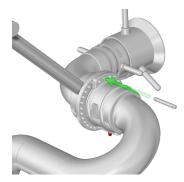
from -90° to +90°.



- 1 Pull the vertical range safety locking pin (Mark. A).
- 2 Adjust the elevation hight using the handle (Mark. B).
- 3 Place the safety locking pin back in place (Mark C).







Mark. A

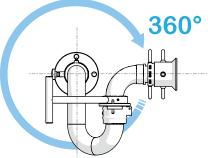
Mark. B

Mark. C

• Horizontal range adjustment

The monitor is adjustable in horizontal range (Horizontal adjustment axis)

of 360°.



- 1 Loosen the horizontal adjustment knob (Mark. D).
- 2 Point the monitor in the desired direction by turning the monitor (Mark. E).
- 3 Tighten the horizontal adjustment knob (Mark F).







Mark. D

Mark. E

Mark. F



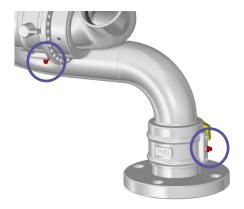
Monitor maintenance procedures

To correctly maintain the monitor it is important to :

- 1 Clean the unit with clean water after every use.
- 2 If salt water has been used, use clean water to clear out any particles or residue that may damage internal components.
- 3 Do not use any corrosive materials, they may damage the gaskets and cause leaks.
- 4 Check the operation of moving parts, no part should jam, be damaged or be blocked.
- 5 Regularly inspect the unit visually to detect leaks.

• Greasing the monitor

To protect the equipment, we recommend that you grease it every six months. Connect a grease gun to the friction areas indicated to ensure proper lubrication.



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Maintenance

• Returning to service procedure

It is important to check the following before placing the equipment back in service:

- 1 Check that no pieces are missing or damaged
- 2 Connect the equipment to a water supply
- 3 Put a stopper with an air vent on the monitor outlet.
- 4 Test the monitor by progressively increasing the pressure until you reach 16 bar. Check for any leaks.
- 5 Place a diffuser or branchpipe on the monitor
- 6 Tester ensuite la lance en condition d'utilisation normale avec une pression de 7 bar. S'assurer que les parties mobiles bougent sans aucun point dur ou blocage. L'opération doit durer environ 10 min.

If no fault is found the monitor can be placed back in service.

If you conduct your own maintenance, it is possible that the hydraulic values of the material may not be listed to the same level as the original product. Only maintenance conducted at the POK factory can guarantee a precise calibration of the equipment.

During the test procedure it is necessary to take special precautions. Only personnel directly involved in the return of service testing of the product should be near the product. If the parts are not connected securely they may eject and cause serious damage.

Spare Parts

Some parts such as gaskets are likely to be changed more or less often depending on the frequency of use, conditions of use or storage.

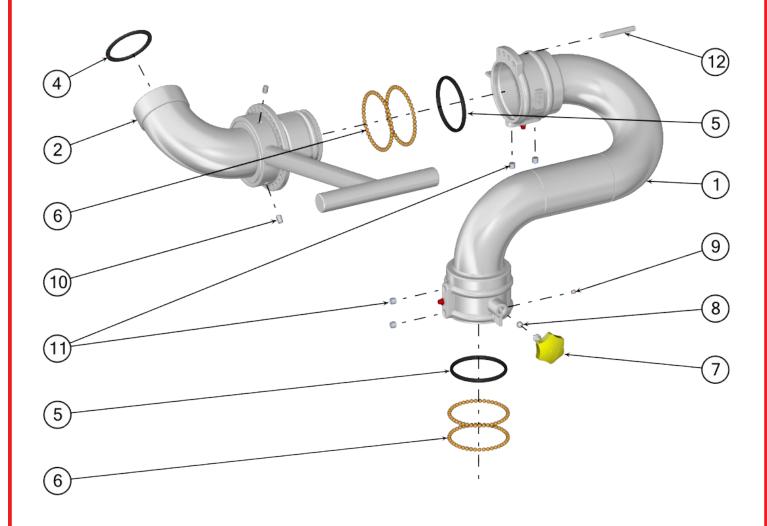
Please contact our sales department for the prices and after sales conditions.

Refer to the bill of materials in this document to identify the replacement parts.

Note: The serial number of the branchpipe may be requested to verify the validity of the warranty.

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Bill of Materials

MARK	QTY	DESIGNATION	REF
1	1	Body	-
2	1	Outlet and handle	-
3a	1	Flange PN16 / DN80 reamed	-
3b	1	Flange PN16 / DN100	-
4	1	Thread gasket 2"1/2 G	-
5	1	O-ring R 40	-
6	168	Ball Ø 6,35	-
7	1	Star Knob Ø50	14347
8	1	Ball Ø10 inox	-
9	1	Screw STHC PL M 6-6	-
10	3	Screw STHC PL M 8-12	-
11	4	Stoppers HC 1-8 BSP inox	-
12	1	Safety Pin	20164



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